



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H140374

Mode: Highway

Status: Submitted

NC-54

From/Cross Street: SR 1006 (Orange Grove Rd)

Specific Improvement Type: 1 - Widen Existing Roadway

To: SR 1937/1107 (Old Fayetteville Rd)

Project Category: Regional Impact

Length: 6.08

TIP#:

Fully Funded in Draft STIP? No

Cost to NCDOT: \$57,346,000

Description:

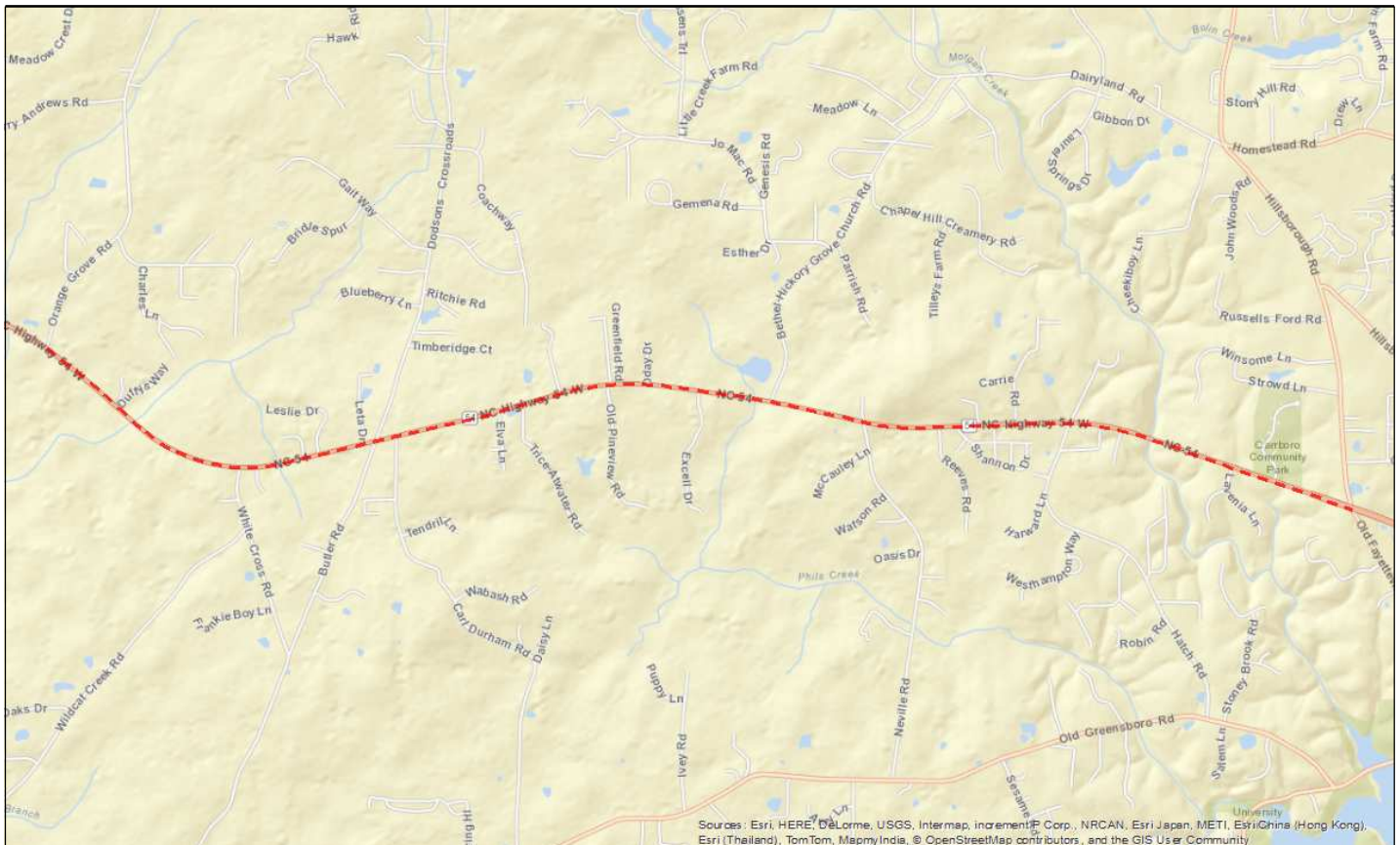
Widen to a four-lane boulevard

Division(s): Division 7

County(s): ORANGE

MPOS(s)/RPO(s): Durham Chapel Hill Carrboro MPO, Triangle Area RPO

Project Location



Statewide Mobility Total Score: 0

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Totals: Weight: 0% Weighted Score: 0	N/A	N/A

Regional Impact Total Score: 28.78

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (25%) 50.97	Percent: 15% Points: 0	Percent: 15% Points: 35
Safety (10%) 70.50		
[Travel Time] Benefit/Cost (25%) 1.00		
Accessibility / Connectivity (10%) 34.89		
Totals: Weight: 70% Weighted Score: 23.53		

Division Needs Total Score: 26.19

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (20%) 50.97	Percent: 25% Points: 0	Percent: 25% Points: 35
Safety (10%) 70.50		
[Travel Time] Benefit/Cost (20%) 1.00		
Totals: Weight: 50% Weighted Score: 17.44		

Project Data ***Existing Conditions**

Existing Cross-Section:	
Speed Limit:	55
Length (miles):	6.08
Facility Type:	Two Lane Highway
Access Control:	None
Functional Classification:	Minor Arterial
Terrain Type:	Rolling
Lane Width:	12
Paved Shoulder Width:	4
Roadway has Curb & Gutter?	No
Volume (AADT):	12383.04
Capacity:	16147.61
Volume/Capacity Ratio:	0.77
% Autos:	95%
% Trucks:	5%
Truck Volume:	618.93
Crash Density:	97.09
Crash Severity:	56.09
Critical Crash Rate:	58.36
Crash Frequency:	0
Severity Index:	0
County Tier Designation:	3
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	23
Existing Median Type (for Cost Estimation):	Undivided
Pavement Condition Rating:	68
Actual Congested Speed:	48.54
Travel Time Index:	1.13

Project Benefits

Project Cross-Section:	4A - 4 Lane Divided (46' Depressed Median) with Paved Shoulders
Speed Limit:	55
Length (miles):	6.08
Facility Type:	Multi-Lane Highway
Access Control:	Partial
Functional Classification:	Minor Arterial
Terrain Type:	Rolling
DOT Design Lane Width:	12
DOT Design Paved Shoulder Width:	4
Travel Time Savings for 30 Years (Total):	2455754.28
Travel Time Savings for 30 Years (Autos):	2333010.83
Travel Time Savings for 30 Years (Trucks):	122743.45
Long-Term Employment:	
% Change in Economy:	
Provides Direct Connection to Transportation Terminal?	No
Does project upgrade how the roadway functions?	Yes
In CTP or LRTP?	Yes
CTP/LRTP Name:	Orange County CTP
CTP/LRTP Completion Year:	2013
Submitted by:	Triangle Area RPO

* Data reflects calculations which include weighted averages (where applicable) and represent raw output from the Department's SPOT OnLine tool and associated databases.

Project Ownership**Division**

Division	Percent	Regional Impact	Division Needs
Division 7	100%	0	0
	0%	0	0
	0%	0	0
TOTAL Division Points		0	0

MPO/RPO

MPO/RPO	Percent	Regional Impact	Division Needs
Durham Chapel Hill Carrboro MPO	65%	0	0
Triangle Area RPO	35%	35	35
	0%	0	0
TOTAL MPO/RPO Points		35	35

Project Cost and Source

Construction Cost:	\$38,676,000	Cost Estimation Tool
Right-of-Way Cost:	\$16,670,000	Cost Estimation Tool
Utilities Cost:	\$2,000,000	Cost Estimation Tool
Total Project Cost:	\$57,346,000	
Other Funding:	\$0	None
Cost to NCDOT :	\$57,346,000	